## **DECLARATION FOR PATENT APPLICATION**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below), or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

MODULATION OF VASCULAR HEALING BY INHIBITION OF LEUKOCYTE ADHESION AND FUNCTION the specification of which (check one) is attached hereto X was filed on March 25, 1997 as application Serial No. \_\_\_\_08/823.999 and was amended on: \_\_\_ (if applicable) I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56(a). M I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed. **Priority** Prior Foreign Application(s) Claimed (Number) (Country) (Day/Month/Year Filed) (Day/Month/Year Filed) (Number) (Country) (Number) (Country) (Day/Month/Year Filed) I hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below: Filing Date Provisional Application Number (Day/Month/Year Filed) (Number) (Day/Month/Year Filed) (Number)

(Day/Month/Year Filed)

418359.1

(Number)

"Modulation of Vascular Healing by Inhibition of Leukocyte Adhesion and Function" By: Campbell Rogers, et al Filed: March 25, 1997 DECLARATION

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of the application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial No.)	(Filing Date)	Status (patented, pending, abandoned)			
(Application Serial No.)	(Filing Date)	Status (patented, pending, abandoned)			
	I hereby appoint the following Patent and Trademark Office	g attorney(s) and/or agent(s) to prosecute this application and			
	Patrea L. Pabst	31,284			
The state of the s	D. Andrew Floam	34,597			
1	David S. Bradin Robert A. Hodges	37,783 P-41,074			
, contains	Robert A. Houges	1-41,0/4			
Send Correspondence to:	Patrea L. Pabst, Esq.				
ee Anders	ARNALL GOLDEN & GREGORY				
	2800 One Atlantic Center				
्वम् १ क्ष	1201 W. Peachtree Street				
inger ing	Atlanta, GA 30309-3450				
Direct telephone calls to:	Patrea L. Pabst (404) 873	-8794			
information and belief are be willful false statements and t	elieved to be true; and further he like so made are punishabl	f my own knowledge are true and that all statements made on that these statements were made with the knowledge that e by fine or imprisonment, or both, under Section 1001 of Title tements may jeopardize the validity of the application or any			
Full name of sole or first inv	entor Campbell Rogers				
Inventor's signature	Visit !	Date 118137			
	hill Road, Westwood, Massac				
Citizenship United State					
	·				

4183591

The first of the state of the s

"Modulation of Vascular Healing by Inhibition of Leukocyte Adhesion and Function" By: Campbell Rogers, et al. Filed: March 25, 1997 DECLARATION

Full name of second inventor Elazer R. Edelman	
Inventor's signature	Date 4 13/47
Residence 91 Baxter Road, Brookline, Massachusetts 02146	•
Citizenship United States	
Post Office Address Same as above	
Full name of third inventor Daniel I. Simon	
Inventor's signature	Date 4/9/97
Residence 211 Dorset, Waban Massachusetts 02168	
Citizenship United States	
Post Office Address Same as above	

# CERTIFICATE UNDER 37 CFR § 3.73(b)

Applicant: Campbell Rogers, Elazer R. Edelman and Daniel L. Simon			
Application No.: 08/823,999 Filed: March 25, 1997 MODULATION OF VASCULAR HEALING BY INHIBITION			
For: OF LEUKOCYTE ADHESION AND FUNCTION  BRIGHAM AND WOMEN'S  HOSPITAL, INC. , a CORPORATION			
HOSPITAL, INC.  (Name of Assignee)  , a CORPORATION  (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)			
certifies that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of:			
An assignment of the patent application identified above from Daniel I. Simon to Brigham and Women's Hospital, Inc. for which a copy thereof is attached.			
OR .			
A chain of title from the inventor(s), of the patent application identified above, to the current assignee as shown below:			
1. From: To: The document was recorded in the Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.			
The document was recorded in the Patent and Trademark Office at Reel,  Frame, or for which a copy thereof is attached.  2. From: To:  The document was recorded in the Patent and Trademark Office at Reel,  Frame, or for which a copy thereof is attached.  3. From: To:			
3. From: To:  The document was recorded in the Patent and Trademark Office at Reel,  Frame, or for which a copy thereof is attached.			
[ ] Additional documents in the chain of title are listed on a supplement sheet.			
[ ] copies of assignments or other documents in the chain of title are attached.			
The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.			
The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.			
I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.			
Date : 5/20/97			
Name : BRIAN N. HICKS			
Acting Director  Title : Ventures Department			
Signature: John J			

421037.1

# CERTIFICATE UNDER 37 CFR § 3.73(b)

Applicant	: Campbell R	ogers, Elazer	R. Edel	man and Da	niel L.	Simon	176
Annlicati	lon No.:		Filed.	March 25	1997		48 <b>5 5 6 6 6 7 6 6 6 6 7 6 6 6 6 7 6 6 6 7 7 8 9 8 9 8 9 9 9 9 9 9 9 9 9 9</b>
MOD	OULATION OF VAS	CULAR HEALING	BY INHI	BITION	<u>,                                    </u>	<del></del>	-7 =
	LEUKOCYTE ADHE		TION				
	SETTS INSTITUTE						
	NOLOGY e of Assignee)	, a _	CORPOR (Type of Ass	ATION signee, e.g., corporation	on partnership	university governm	
(Majiic	e of Assignee)		(Type of Ass	ignee, e.g., corporati	ou, paraicismp,	dinversity, governm	ent agency, etc.)
	that it is the ass n identified above		tire right	, title and	interest	in the pate	nt
	ssignment of the r delman to Massachu ched.						
OR							
重 the d	ain of title from current assignee a	the inventor(s) as shown below:	, of the p	atent applic	ation ide	ntified abo	ve, to
<u>.                                    </u>	From:		То:				
	The document was	recorded in th or for which a	e Patent a copy there	nd Trademark of is attach	Office a	t Reel	
# 2.	From:						
ent a	The document was	recorded in th or for which a	e Patent a copy there	nd Trademark of is attach	Office a ed.	t Reel	
· 3.	From:		To:				
e and and a second a second and	The document was	recorded in th or for which a	e Patent a copy there	nd Trademark of is attach	Office a	t Reel	
Sand Sand Sand Sand Sand Sand Sand Sand	[] Additional	. documents in t	he chain c	f title are	listed on	. a suppleme	nt sheet.
[] Copies	of assignments or	other document	s in the c	hain of titl	e are att	ached.	
identified	igned has reviewed above and, to the dentified above.	all the docume best of unders	nts in the igned's kn	chain of ti owledge and	tle of th belief, t	e patent ap itle is in	plication the
The undersi	igned (whose title	e is supplied be	low) is em	powered to a	ct on beh	alf of the	assignee.
statements statements are punisha States Code	eclare that all st made on informati are made with the able by fine or im e, and that such we n or any patent is May 20,	on and belief a knowledge that prisonment, or villful false stauing thereon.	re believe willful f both, unde	d to be true alse stateme r Section 10	; and fur nts, and 01, Title	ther, that the like so :18 of the	these made, United
Date :	:				··		
Name :	JAKIVIILI :atent ar	A Z. HRBEK					
mil . T .	AND OFFI	CE MANAGER				<del></del>	•
Title :	TEGHNOLOGY	FICENZING OLLICE					
Signature :	: urmila s	1 Isheb					
		•					
421	.041.1					20220/391	



#### UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

SEPTEMBER 04, 1997

PTAS

PATREA L PABST, ESQ. 2800 ONE ATLANTIC CTR. 1201 W. PEACHTREE STREET ATLANTA, GA 30309-3450



# UNITED STATES PATENT AND TRADEMARK OFFICE

NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVILLIN U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, 🗊 BOX ASSIGNMENTS, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231.

RECORDATION DATE: 05/27/1997

REEL/FRAME: 8640/0041 NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

15

N

F. S. S.

200

ROGERS, CAMPBELL

DOC DATE: 05/19/1997

➡ ASSIGNOR:

EDELMAN, ELAZER R.

DOC DATE: 05/19/1997

ASSIGNEE:

MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVENUE CAMBRIDGE, MASSACHUSETTS 02139

SERIAL NUMBER: 08823999

PATENT NUMBER:

FILING DATE: 03/25/1997

ISSUE DATE:

TARA WASHINGTON, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

DOCKETED FOR MIT 7501 J5H DATE 9-18,9

	40.	1581 D
FORMETTO-1505 AND RECORDATION	08-18-1997	U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office
career		t aunt and tracontain Onco
Laborations 200 Y 1007 Mel	early that and the second and the state of the last that	documents or copy thereof
To the Honorable Commissioner of Patents and Trade	100512928 2. Name and address of reco	
1. Name of conveying party(ies):	Name: Massachuset	
Campbell Rogers	Techno	logy
Elazer R. Edelman	Internal Address:	
Additional name(s) of conveying party(ies) attached?   Yes   No		
3. Nature of conveyance:		
Assignment	Street Address: 77 Ma	assachusetts Avenue
☐ Security Agreement ☐ Change of Name		MA 710 02139
Other	1	State: MA ZIP: 02139
Execution Date: May 19, 1997 and May 19, 199	7 Additional name(s) & address(e	as) attached? **Q Yes ** Q No
If this document is being filed together with a new application, the A Patent Application No.(s)  08/823,999	B. Patent No.(s)	
Additional numbers att	ached? O Yes O No	
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of application	ns and patents involved: 1
Name: Patrea L. Pabst, Esq.  Internal Address: 2800 One Atlantic Ctr.	7. Total fee (37 CFR 3.41):	\$ 40.00
memaryonos.	₩ Enclosed	
	☐ Authorized to be cha	rged to deposit account
Street Address: 1201 W. Peachtree St.	8. Deposit account number 01-2507	r: 
30309- 30309- 30309- 30309- 30309-	(Attach duplicate copy of the	ris page if paying by deposit account)
	E THIS SPACE	0000173 088235
		0000
Statement and signature.  To the best of my knowledge and belief, the foregoing info of the original document.	rmation is true and correct and	any attached copy is a true copy
Patrea L. Pabst Name of Person Signing	Signature	Date Date
1491116 Oct. 4(201) 20dam.2	Total number of pages	s comp

### ASSIGNMENT

We, Campbell Rogers of 45 Churchill Road, Westwood Massachusetts, 02090 and Elazer R. Edelman of 91 Baxter Road, Brookline, Massachusetts 02146, in consideration of Five Dollars and other valuable consideration paid to me by Massachusetts Institute of Technology, a corporation of Massachusetts having its principal place of business at 77 Massachusetts Avenue, Cambridge, Massachusetts, 02139, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said Massachusetts Institute of Technology its successors and assigns, the entire interest for the United States of America and its territories and all foreign countries and jurisdictions including all rights of priority under the International Convention for the Protection of Industrial Property in a certain invention or improvement entitled "Modulation of Vascular Healing by Inhibition of Leukocyte Adhesion and Function" described in U.S. Serial No. 08/823,999 filed on March 25, 1997, by Campbell Rogers, Elazer R. Edelman and Daniel I. Simon, in the United States Patent and Trademark Office and in all Letters Patent of the United States of America and its territories and all foreign countries and jurisdictions which may or shall be granted on said invention, or any parts thereof, or on said application, or any divisional, continuation, continuation-in-part, renewals, reissue or other applications based in whole or in part thereon. And we agree, for ourselves and our executors and administrators, with said corporation and its successors and assigns but at its or their expense or charges, hereafter to execute all applications, amended specifications, deeds or other instruments, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and in all other countries to said corporation, with specifications and claims in such form as shall be approved by the counsel of said corporation and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

And we do hereby authorize and request the Commissioner of Patents and Trademarks

"Modulation of Vascular Healing by Inhibition of Leukocyte Adhesion and Function" By: Campbell Rogers, Elazer R. Edelman and Daniel L. Simon Filed: March 25, 1997 ASSIGNMENT

of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

WITNESS my hand and seal this	day of $\underline{\qquad}$ , 1997.
-	Campbell Rogers
Commonwealth of Massachusetts Boston, County of Suffork )	mμ) ss.
Then personally appeared the above foregoing instrument to be his free act and of 1997.	named Campbell Rogers and acknowledged the deed, before me, this 19 day of may
JOANNE BUONFIGLIO  Notery Public	Jonne Burfiglio  Notary Public
My Commission Expires May 10, 2002	19 day of
	ES R. Eelo
	Elazer R. Edelman

Then personally appeared the above named Elazer R. Edelman and acknowledged the foregoing instrument to be her free act and deed, before me, this  $\underline{I^{c}}$  day of  $\underline{May}$ 1997.

JOANNE BUONFIGLIO **Notary Public** My Commission Expires May 10, 2002

Commonwealth of Massachusetts 305107 County of 501161 K

Notary Public



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

SEPTEMBER 04, 1997

PATREA L. PABST, ESQ.

PTAS

\*100512425

2800 ONE ATLANTIC CTR. 1201 W. PEACHTREE STREET ATLANTA, GA 30309-3450

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF . U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231.

RECORDATION DATE: 05/27/1997

REEL/FRAME: 8640/0123 NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

SIMON, DANIEL I.

DOC DATE: 04/09/1997

ASSIGNEE:

BRIGHAM AND WOMEN'S HOPITAL, INC. 75 FRANCIS STREET BOSTON, MASSACHUSETTS 02117

SERIAL NUMBER: 08823999

PATENT NUMBER:

FILING DATE: 03/25/1997

ISSUE DATE:

SHAREIL COLES, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

DOCKETED FOR MIT 7501 BY JSH DATE 9-18-97

The first than the first first first first

He that the test that the test

384 PTO-1595 ALL ROOM 08-1	8-1997
1-31-02'd	U.S. DEPARTMENT OF COMMERCE Patont and Tradomark Office  \$\frac{40}{58}\$
Tab sations 999 Y	Y / Y
To the Honorabie Commissioner of Palents and accommission	512425 acts or original documents or copy thereof.
1. Name of conveying party is SIDEM	2. Name and address of receiving party(ies):
MRD	Name: Brigham and Women's . ,
Daniel I. Simon 95-27-9-	Internal Address:
Additional name(s) of conveying party(ies) attached?   Yes   No	
3. Nature of conveyance:	
Assignment .   Merger	Street Address: 75 Francis Street
☐ Security Agreement ☐ Change of Name	
Other	City: Boston State: MA ZIP: 02117
Execution Date: April 9, 1997	Additional name(s) & address(es) attached? ** Yes ** No
4. Application number(s) or patent number(s):	the execution date of the particular
If this document is being filed together with a new application, t	
A Patent Application No.(s)	B. Patent No.(s)
20 (000 000	
08/823,999	
Additional numbers att	ached? 🗆 Yes 💆 No
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:
Name: Patrea L. Pabst, Esq.	
Internal Address: 2800 One Atlantic Ctr.	7. Total fee (37 CFR 3.41):\$ 40.00
	Enclosed
	Authorized to be charged to deposit account
Street Address: 1201 W. Peachtree St.	8. Deposit account number: 01-2507
30309- City: Atlanta State: GA ZIP: 3450	(Attach duplicate copy of this pag &if paying by deposit account)
DO NOT USE	THIS SPACE &
	THIS SPACE
	00172
Statement and signature.  To the best of my knowledge and belief, the foregoing inform of the original document.	nation is true and correct and any attached copy is a true copy
,	The C/23/57
Patrea L. Pabst  Name of Person Signing	
	Total number of pages companies
the OCa 1911 (no. 4794)	1267

#### ASSIGNMENT

I, Daniel I. Simon of 211 Dorset, Waban, Massachusetts 02168, in consideration of Five Dollars and other valuable consideration paid to me by Brigham and Women's Hospital, Inc., a corporation of Massachusetts having its principal place of business at 75 Francis Street, Boston, Massachusetts 02117, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said Brigham and Women's Hospital, Inc., its successors and assigns, the entire interest for the United States of America and its territories and all foreign countries and jurisdictions, including all rights of priority under the International Convention for the Protection of Industrial Property in a certain invention or improvement in "Modulation of Vascular Healing by Inhibition of Leukocyte Adhesion and Function" described in U.S. Serial 08/823,999 filed on March 25, 1997, by Campbell Rogers, Elazer R. Edelman and Daniel I. Simon, in the United States Patent and Trademark Office, and in all Letters Patent of the United States and its territories and all foreign countries and jurisdictions which may or shall be granted on said invention, or any parts thereof, or on said application, or any divisional, continuation, continuation-in-part, reissue or other applications based in whole or in part thereon. And I agree, for myself and my executor and administrator, with said corporation and its successors and assigns but at its or their expense or charges, hereafter to execute all applications, amended specifications, deeds or other instruments, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and its territories and in all other foreign countries and jurisdictions to said corporation, with specifications and claims in such form as shall be approved by the counsel of said corporation and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

And I do hereby authorize and request the Commissioner of Patents and

"Modulation of Vascular Healing by Inhibition of Leukocyte Adhesion and Function" By: Campbell Rogers, Elazer R. Edelman and Daniel I. Simon Filed: March 25, 1997 ASSIGNMENT

Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

WITNESS my hand and seal this \_\_\_\_\_ q day of \_\_\_\_\_\_, 1997.

Daniel I. Simon

County of Salara County

) )ss.

Then personally appeared the above named Daniel I. Simon and acknowledged the foregoing instrument to be his free act and deed, before me, this 9th day of 1997.

Notary Public

My Commission Expires May 31, 2002